

Project: -

Certificate Number: HOU 9630071/1

Client: Bettis Corporation

Office: Houston

Client's Order Number: P.O. 05-11396

Date: 25 November 1998

Order Status: Incomplete

Inspection Dates

First: 1 July 1996

Final: 8 November 1996

This certificate is issued to Bettis Corporation, to certify that at their request the undersigned Surveyor to Lloyd's Register did attend their works at 18703 GH Circle, Waller, Texas on and between the above mentioned dates for the purpose of witnessing actuator testing as detailed below:-

QUANTITY

DESCRIPTION

1 (One)

1/4 Turn Valve Actuator
Model No.: G7032-SR1 (Xylan)
Part No.: 119920
Serial No.: T960026-1

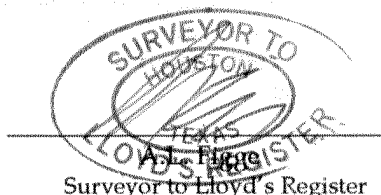
Now Done:

The above referenced actuator was tested in accordance with Bettis Test Procedure No.: TP960010, Rev. C in order to fulfil the requirements of Appendix A of Shell Expro's Type Approval Specification No.: ES/235, Rev. 2.

The testing included 6000 cycles at 90% - 95% full load in an environmental chamber maintained at -20° C for 3000 cycles and +55° C for 3000 cycles.

Critical test points were independently witnessed and completed test procedure was endorsed by the undersigned Surveyor to Lloyd's Register.

Results of the above testing are documented in Bettis Test Report No.: R-1514 dated 16 May 1997, which has been endorsed by the undersigned Surveyor to Lloyd's Register.



NOTICE: This certificate is subject to the terms and conditions overleaf, which form part of this certificate.

Project: -

Certificate Number: HOU 9630071/2

Client: Bettis Corporation

Office: Houston

Client's Order Number: P.O. 05-11396

Date: 25 November 1998

Order Status: Incomplete

Inspection Dates

First: 6 December 1996

Final: 28 February 1997

This certificate is issued to Bettis Corporation, to certify that at their request the undersigned Surveyor to Lloyd's Register did attend their works at 18703 GH Circle, Waller, Texas and Southwest Research Institute, 6220 Culebra Road, San Antonio, Texas on and between the above mentioned dates for the purpose of witnessing actuator testing as detailed below:-

<u>QUANTITY</u>	<u>DESCRIPTION</u>
1 (One)	1/4 Turn Valve Actuator Model No.: G7006.0-SR1 (Subsea) Part No.: 123296 Serial No.: T960026-4

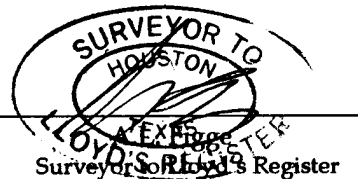
Now Done:

The above referenced actuator was tested in accordance with Bettis Test Procedure Nos.: TP960014, Rev. B and TP960013, Rev. B in order to fulfil the requirements of Appendix A of Shell Expro's Type Approval Specification No.: ES/235, Rev. 2.

The testing included 3000 cycles at 90% - 95% full load in an environmental chamber maintained at +5° C followed by 500 cycles at 100% full load in a hyperbaric chamber in which the water is pressurised to 25 barg and maintained at +5° C for the first and last 10 cycles.

Critical test points were independently witnessed and completed test procedures were endorsed by the undersigned Surveyor to Lloyd's Register.

Results of the above testing are documented in Bettis Test Report No.: R-1517 dated 6 May 1997, which has been endorsed by the undersigned Surveyor to Lloyd's Register.



NOTICE: This certificate is subject to the terms and conditions overleaf, which form part of this certificate.

Project: -

Certificate Number: HOU 9630071/3

Client: Bettis Corporation

Office: Houston

Client's Order Number: P.O. 05-11396

Date: 25 November 1998

Order Status: Incomplete

Inspection Dates
First: 1 April 1997

Final: 8 May 1997

This certificate is issued to Bettis Corporation, to certify that at their request the undersigned Surveyor to Lloyd's Register did attend their works at 18703 GH Circle, Waller, Texas on and between the above mentioned dates for the purpose of witnessing actuator testing as detailed below:-

<u>QUANTITY</u>	<u>DESCRIPTION</u>
1 (One)	1/4 Turn Valve Actuator Model No.: G7032-SR1-S (ENP) Part No.: 123299 Serial No.: T960026-5

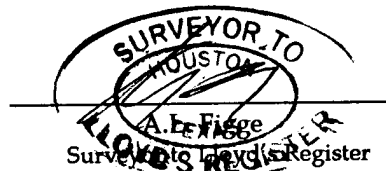
Now Done:

The above referenced actuator was tested in accordance with Bettis Test Procedure No.: TP960015, Rev. A in order to fulfil the requirements of Appendix A of Shell Expro's Type Approval Specification No.: ES/235, Rev. 2.

The testing included 6000 cycles at 90% - 95% full load in an environmental chamber maintained at -20° C for 3000 cycles and +55° C for 3000 cycles.

Critical test points were independently witnessed and completed test procedure was endorsed by the undersigned Surveyor to Lloyd's Register.

Results of the above testing are documented in Bettis Test Report No.: R-1518 dated 16 May 1997, which has been endorsed by the undersigned Surveyor to Lloyd's Register.



NOTICE: This certificate is subject to the terms and conditions overleaf, which form part of this certificate.

Project: -

Certificate Number: HOU 9630071/4

Client: Bettis Corporation

Office: Houston

Client's Order Number: P.O. 05-11396

Date: 25 November 1998

Order Status: Incomplete

Inspection Dates

First: 9 July 1997

Final: 12 August 1997

This certificate is issued to Bettis Corporation, to certify that at their request the undersigned Surveyor to Lloyd's Register did attend their works at 18703 GH Circle, Waller, Texas on and between the above mentioned dates for the purpose of witnessing actuator testing as detailed below:-

QUANTITY

DESCRIPTION

1 (One)

1/4 Turn Valve Actuator
Model No.: G7006.0-ETS DA
Part No.: 123438
Serial No.: T970035-1

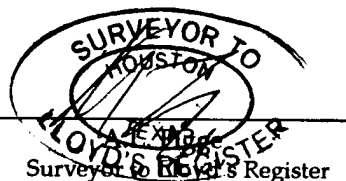
Now Done:

The above referenced actuator was tested in accordance with Bettis Test Procedure No.: TP970012, Rev. A in order to fulfil the requirements of Appendix A of Shell Expro's Type Approval Specification No.: ES/235, Rev. 2.

The testing included 6000 cycles at 90% - 95% full load in an environmental chamber maintained at -20° C for 3000 cycles and +55° C for 3000 cycles.

Critical test points were independently witnessed and completed test procedure was endorsed by the undersigned Surveyor to Lloyd's Register.

Results of the above testing are documented in Bettis Test Report No.: R-1521 dated 27 March 1998, which has been endorsed by the undersigned Surveyor to Lloyd's Register.



NOTICE: This certificate is subject to the terms and conditions overleaf, which form part of this certificate.